

10-30-00

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PTO/SB/05 (08-00)

Please type a plus sign (+) inside this box → ☒Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	103.576.144
First Inventor	Palombella
Title	MEKK1 MOLECULES AND USES THEREOF
Express Mail Label No.	EL521665185US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **117**]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **8**]
5. Oath or Declaration [Total Pages **8**]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 17 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Other: .....

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_/\_\_\_\_\_

Prior application information:

Examiner: \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**18. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☐ Correspondence address below

Name	Janice M. Klunder, Ph.D.				
Address	Hale and Dorr LLP				
	60 State Street				
City	Boston	State	MA	Zip Code	02109
Country		Telephone	617-526-6000	Fax	617-526-5000

Name (Print/Type)

Janice M. Klunder, Ph.D.

Registration No. (Attorney/Agent)

41,121

Signature

*Janice M. Klunder*

Date 27 Oct 2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

EXPRESS MAIL LABEL NO. EL521665185USDATE OF DEPOSIT 10/27/00

PTO/SB/17 (09-00)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL  
for FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$1,758

**Complete if Known**

Application Number

Filing Date

27 October 2000

First Named Inventor

Palombella

Examiner Name

Group Art Unit

Attorney Docket No.

103.576.144

PTO  
09/29/00  
10/27/00**METHOD OF PAYMENT**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit  
Account  
Number

08-0219

Deposit  
Account  
Name

Hale and Dorr LLP

- ☒
- Charge Any Additional Fee Required
- 
- Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status.  
See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Credit card ☐ Money  
Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
101 710	201 355	Utility filing fee	710
106 320	206 160	Design filing fee	
107 490	207 245	Plant filing fee	
108 710	208 355	Reissue filing fee	
114 150	214 75	Provisional filing fee	

SUBTOTAL (1) (\$ 710.00

**2. EXTRA CLAIM FEES**

Total Claims	Extra Claims	Fee from below	Fee Paid
41	-20** = 21	18	378
8	-3** = 5	80	400
Multiple Dependent		270	270

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description
103 18	203 9	Claims in excess of 20
102 80	202 40	Independent claims in excess of 3
104 270	204 135	Multiple dependent claim, if not paid
109 80	209 40	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$1,048.00

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**Large Entity Small Entity  
Fee Code (\$)

Fee Description

Fee Paid

105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for <i>ex parte</i> reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 390	216 195	Extension for reply within second month	
117 890	217 445	Extension for reply within third month	
118 1,390	218 695	Extension for reply within fourth month	
128 1,890	228 945	Extension for reply within fifth month	
119 310	219 155	Notice of Appeal	
120 310	220 155	Filing a brief in support of an appeal	
121 270	221 135	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,240	241 620	Petition to revive - unintentional	
142 1,240	242 620	Utility issue fee (or reissue)	
143 440	243 220	Design issue fee	
144 600	244 300	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Petitions related to provisional applications	
126 240	126 240	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 710	246 355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))	
179 710	279 355	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

**SUBMITTED BY**

Complete (if applicable)

Name (Print/Type)

Janice M. Klunder, Ph.D.

Registration No.  
(Attorney/Agent)

41,121

Telephone

617-526-6771

Signature

Janice M. Klunder

Date

27 Oct 2000

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Pr vide credit card information and authorization n PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Palombella et al.  
Serial No.: TBA  
Filing Date: October 27, 2000  
Title: MEKK1 MOLECULES AND USES THEREOF



BOX PATENT APPLICATION  
Commissioner for Patents  
Washington, DC 20231

CERTIFICATE OF MAILING

I hereby certify that the attached papers and fees are being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" Service under 37 C.F.R. 1.10 on October 27, 2000 and is addressed to BOX PATENT APPLICATION, Commissioner for Patents, Washington, DC 20231.

10/27/00  
Date of Signature and  
of Mail Deposit

Jo-Ann Bergantino  
Jo-Ann Bergantino

TRANSMITTAL LETTER

Dear Commissioner for Patents:

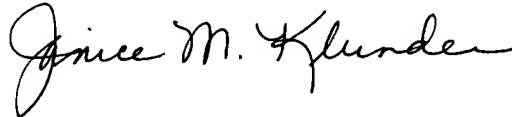
Enclosed herewith for appropriate action are the following items:

1. Utility Patent Application Transmittal Sheet;
2. New Application entitled MEKK1 MOLECULES AND USES THEREOF and naming inventors Vito J. Palombella and Sha-Mei Liao. The application consists of 125 pages, including:
  - 108 pages of the specification
  - 8 pages of the claims
  - 1 page of the abstract
  - 8 pages of drawings (Figures 1-5);
3. Two Signed Declaration and Power of Attorney forms;
4. Fee Transmittal Sheet; and
5. Return postcard.

Please charge our Deposit Account No. 08-0219 the required filing fee of \$1,758. In addition, please charge any fees or credit any overpayment to Deposit Account No. 08-0219.

Respectfully submitted,

HALE AND DORR LLP



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Janice M. Klunder, Ph.D.  
Reg. No. 41,121

**October 27, 2000**

HALE AND DORR LLP  
60 State Street  
Boston, MA 02109  
Tel: (617) 526-6771  
Fax: (617) 526-5000

**Title:**

Applicant Palombella et al.

☒ Express Mail Label No. EL521665185US

108 pp. of specification

8 pp. of claims (# of claims -       )

1 pp. of abstract

8 sheets of drawings; Figs. 1-5

☐ formal ☒ informal

☐ Provisional Application Cover Sheet

☒ Declaration / Power of Attorney ( \_\_ Unsigned ) X2

☐ Verified Statement Claiming Small Entity Status☐ Copy of Notice to File Missing Parts ☐ Response

☐ Request for filing CPA; 37 CFR 1.53(d)

☐ IDS, PTO-1449, and \_\_\_ references (Supp. \_\_\_)

☐ Certificate of Mailing under 37 CFR 1.8(a)

☐ Response to Office Action/Restriction Req.☐ Petition for \_\_\_ month extension of time☐ Assignment and Cover Sheet

☐ Amendment (☐ Preliminary; ☐ After Final)

☐ Notice of Appeal

☐ Appellant's Brief (triplicate) ☐ Reply Brief

☐ Letter to Chief Draftsperson

☐ Issue Fee / ☐ Maintenance Fee Transmittal

☐ Sequence listing; ☐ Diskette

☒ Transmittal Letter

☐ Check for \$ \_\_\_\_\_; check # \_\_\_\_\_

☒ Deposit Account Authorization \$1758.00

☐ other:☐ other:

other: \_\_\_\_\_  
Mailing Date: 10/27/00

Docket No.

103576.144

Atty/paralegal/secy: JMK/jrb

~~MPI2000-133~~ Millennium

HC917 U.S. #10  
09/697898  
10/27/08